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RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/726,348

DATE: 12/29/2000  
 TIME: 09:41:44

Input Set : A:\PF220P1.ST25.txt  
 Output Set: N:\CRF3\12292000\I726348.raw

110> APPLICANT: Wei, Ying-Fei  
 et al,  
 6 <120> TITLE OF INVENTION: Transforming Growth Factor Alpha IIII  
 8 <130> FILE REFERENCE: P. 20P1  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/726,348  
 11 <141> CURRENT FILING DATE: 2000-12-01  
 13 <150> PRIOR APPLICATION NUMBER: 08/778,545  
 14 <151> PRIOR FILING DATE: 1997-01-03  
 16 <150> PRIOR APPLICATION NUMBER: 60/011,136  
 17 <151> PRIOR FILING DATE: 1996-01-04  
 19 <150> PRIOR APPLICATION NUMBER: 60/168,387  
 20 <151> PRIOR FILING DATE: 1999-12-02  
 22 <160> NUMBER OF SEQ ID NOS: 21  
 24 <170> SOFTWARE: PatentIn version 3.0  
 26 <210> SEQ ID NO: 1  
 27 <211> LENGTH: 923  
 28 <212> TYPE: DNA  
 29 <213> ORGANISM: homo sapiens  
 31 <400> SEQUENCE: 1  
 32 gaaatgqgc cccacggcc cggatagct tacgacccg gtgccctggg ctgccgccct 60  
 34 gctcctcgt ctgggctgg aagggctct qgcctaccc gagatatga cccaatgtcc 120  
 36 agggagcgtg caaaatttgt caaaagtggc cttttattgt aaaacgacac gagagetaat 180  
 38 gctgcattgc cgttgctgcc tgaatcagaa gggcaccatc ttggggctgg atctccagaa 240  
 40 ctgttctctg gaggaacctg gtcctaaactt tcatcaggca cataccactg tcatcataga 300  
 42 cctgcaagca aacccctcca aaggtgactt ggcctaaccc ttcgtgggt ttaactcaact 360  
 44 ccagactctg atactgccac aacatgtcaa ctgtctgga ggaattaatg cctggaatac 420  
 46 tatcactctt tataatagaa accaaatctg tcaaggqcaa aagaaccttt gcaataaac 480  
 48 tggggaccca gaaatgtgtc ctgagaatgg atcttgtgta cctgatgggc caggtctttt 540  
 50 gcagtgtglt tgtgtgatg gtttccatgg atacaagtgt atgcgccagg gctcgttctc 600  
 52 actgcttatg ttctctggga ttctgggggc caccactctt taggtcttac cattgaacta 660  
 54 ggcgacccag cgcgaaaag ccaagacttc atgaactaca taggtcttac cattgaacta 720  
 56 agatcaatct gaactatctt agccacgtca gggagctctg ctctctagaa aggcactctt 780  
 58 cgcagtgga ttgcctcaa ggttgaggcc gccattggaa gatgaaaaat tgcactccct 840  
 60 tgggtgatag aaataccagt tccattggtt qttgttgcct ataataaaca cttttttctt 900  
 62 ttttaaaaaa aaaaaaaa aaa 923  
 65 <210> SEQ ID NO: 2  
 66 <211> LENGTH: 229  
 67 <212> TYPE: PRT  
 68 <213> ORGANISM: homo sapiens  
 70 <400> SEQUENCE: 2  
 72 Met Ala Pro His Gly Pro Gly Ser Leu Thr Thr Leu Val Pro Trp Ala  
 73 1 5 10 15  
 75 Ala Ala Leu Leu Leu Ala Leu Gly Val Glu Arg Ala Leu Ala Leu Pro  
 76 20 25 30  
 78 Glu Ile Cys Thr Gln Cys Pro Gly Ser Val Gln Asn Leu Ser Lys Val  
 79 35 40 45  
 81 Ala Phe Tyr Cys Lys Thr Thr Arg Glu Leu Met Leu His Ala Arg Cys

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PATENT APPLICATION: US/09/726,348

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TIME: 09:41:44

Input Set : A:\PF220P1.ST25.txt

Output Set: N:\CRF3\12292000\I726348.raw

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82      50      55      60
84 Cys Leu Asn Gln Lys Gly Thr Ile Leu Gly Leu Asp Leu Gln Asn Cys
85 65      70      75      80
87 Ser Leu Glu Asp Pro Gly Pro Asn Phe His Gln Ala His Thr Thr Val
88      85      90      95
90 Ile Ile Asp Leu Gln Ala Asn Pro Leu Lys Gly Asp Leu Ala Asn Thr
91      100      105      110
93 Phe Arg Gly Phe Thr Gln Leu Gln Thr Leu Ile Leu Pro Gln His Val
94      115      120      125
96 Asn Cys Pro Gly Gly Ile Asn Ala Trp Asn Thr Ile Thr Ser Tyr Ile
97      130      135      140
99 Asp Asn Gln Ile Cys Gln Gly Gln Lys Asn Leu Cys Asn Asn Thr Gly
100 145      150      155      160
102 Asp Pro Gln Met Cys Pro Glu Asn Gly Ser Cys Val Pro Asp Gly Pro
103      165      170      175
105 Gly Leu Leu Gln Cys Val Cys Ala Asp Gly Phe His Gly Tyr Lys Cys
106      180      185      190
108 Met Arg Gln Gly Ser Phe Ser Leu Leu Met Phe Phe Gly Ile Leu Gly
109      195      200      205
111 Ala Thr Thr Leu Ser Val Ser Ile Leu Leu Trp Ala Thr Gln Arg Arg
112      210      215      220
114 Lys Ala Lys Thr Ser
115 225

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117 &lt;210&gt; SEQ ID NO: 3

118 &lt;211&gt; LENGTH: 52

119 &lt;212&gt; TYPE: PRT

120 &lt;213&gt; ORGANISM: homo sapiens

122 &lt;400&gt; SEQUENCE: 3

124 Gly Gln Lys Asn Leu Cys Asn Asn Thr Gly Asp Pro Glu Met Cys Pro

125 1 5 10 15

127 Glu Asn Gly Ser Cys Val Pro Asp Gly Pro Gly Leu Leu Gln Cys Val

128 20 25 30

130 Cys Ala Asp Gly Phe His Gly Tyr Lys Cys Met Arg Gln Gly Ser Phe

131 35 40 45

133 Ser Leu Leu Met

134 50

136 &lt;210&gt; SEQ ID NO: 4

137 &lt;211&gt; LENGTH: 733

138 &lt;212&gt; TYPE: DNA

139 &lt;213&gt; ORGANISM: homo sapiens

141 &lt;400&gt; SEQUENCE: 4

142 gggatccgga gcccaaatct tctgacaaaa ctacacatg cccacgtgc ccagcacctg 60

144 aattcgaggg tgcaccgtca gtcttctctt tcccccaaa acccaaggac acctctatga 120

146 tctcccgga cctcgaggtc acatgcgtgg tgggtggacg aagccacgaa gacctgagg 180

148 tcaagttcaa ctggtagctg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240

150 aagagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtctct caccaggaat 300

152 ggcctgaatg caaggagtac aagtgcgaag tctccaacaa agcctccca accccatcg 360

154 aqaaaacat ctccaagcc aagggcagc cccagagacc acaggtgtac acctgcccc 420

156 catcccgagg tggagtgacc aagaaccagg tcagcctgac ctgcctgggtc aaagccttct 480

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/726,348

DATE: 12/29/2000

TIME: 09:41:14

Input Set : A:\PF220P1.ST25.txt

Output Set: N:\CRF3\12292000\1726348.raw

158 atccaagcga catgcgcgtg gactgggaga gcaatgggca gccggagaaac aactacaaga 540  
 160 ccacgcctcc cgtgctggac tcgcagcgcct ccttcttccct ctacagcaag ctaccgcgtg 600  
 162 acaagagcag gtcgcagcag gggaaacgtct tctcatgcto cgtgatgcat gaggctctgc 660  
 164 acaaccacta caccgcagaag agcctctccc tctctccggg taatgagtg cgcgcgcgc 720  
 166 gactctagag gat  
 169 <210> SEQ ID NO: 5 733  
 170 <211> LENGTH: 5  
 171 <212> TYPE: PRF  
 172 <213> ORGANISM: WSXWS motif  
 174 <220> FEATURE:  
 175 <221> NAME/KEY: SILE  
 176 <222> LOCATION: (3)..(3)  
 177 <223> OTHER INFORMATION: Xaa equals any amino acid  
 180 <400> SEQUENCE: 5  
 182 Trp Ser Xaa Trp Ser  
 183 1 5  
 185 <210> SEQ ID NO: 6  
 186 <211> LENGTH: 86  
 187 <212> TYPE: DNA  
 188 <213> ORGANISM: oligonucleotide  
 190 <220> FEATURE:  
 191 <221> NAME/KEY: protein\_bind  
 192 <222> LOCATION: (1)..(86)  
 193 <223> OTHER INFORMATION: 5' primer containing 18bp complementary to SV40 promoter and  
 194 an XhoI site  
 197 <400> SEQUENCE: 6  
 198 ggcgcctcag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60  
 200 cccgaaatat ctgccatctc aattag 86  
 203 <210> SEQ ID NO: 7  
 204 <211> LENGTH: 27  
 205 <212> TYPE: DNA  
 206 <213> ORGANISM: oligonucleotide  
 208 <220> FEATURE:  
 209 <221> NAME/KEY: protein\_bind  
 210 <222> LOCATION: (1)..(27)  
 211 <223> OTHER INFORMATION: 3' primer containing sequence complementary to SV40  
 212 promoter and a HindIII site  
 215 <400> SEQUENCE: 7  
 216 gcggcaagct ttctgcaaaag cctagggc 27  
 219 <210> SEQ ID NO: 8  
 220 <211> LENGTH: 271  
 221 <212> TYPE: DNA  
 222 <213> ORGANISM: Homo sapiens  
 224 <400> SEQUENCE: 8  
 225 ctgcagatlt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg 60  
 227 aaatatctgc catctcaatt agtcagcaac catagtcccg cccctaactc cgcctatccc 120  
 229 gcccttaact ccgccagtt ccgcccttc tccgcccat ggcctgactaa tttttttat 180  
 231 ttatgcagag gccgaggccg cctcggcctc tgcgtatctc cagaagtagt gaggaggctt 240  
 233 ttttggaggc ctaggctttt gcaaaaagct t 271

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/726,348

DATE: 12/29/2000

TIME: 09:41:44

Input Set : A:\PF220Pl.ST25.txt

Output Set: N:\CRF3\12292000\I726348.raw

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236 <210> SEQ ID NO: 9
237 <211> LENGTH: 32
238 <212> TYPE: DNA
239 <213> ORGANISM: oligonucleotide
241 <220> FEATURE:
242 <221> NAME/KEY: primer_bind
243 <222> LOCATION: (1)..(32)
244 <223> OTHER INFORMATION: 5' PCR primer
247 <400> SEQUENCE: 9
248 gcgcctcaggg gatgacagcg atagaacccc gg          32
251 <210> SEQ ID NO: 10
252 <211> LENGTH: 31
253 <212> TYPE: DNA
254 <213> ORGANISM: oligonucleotide
256 <220> FEATURE:
257 <221> NAME/KEY: primer_bind
258 <222> LOCATION: (1)..(31)
259 <223> OTHER INFORMATION: 3' PCR primer
262 <400> SEQUENCE: 10
263 gcgaagcttc gcgaactccc ggaacccct c          31
266 <210> SEQ ID NO: 11
267 <211> LENGTH: 12
268 <212> TYPE: DNA
269 <213> ORGANISM: oligonucleotide
271 <220> FEATURE:
272 <221> NAME/KEY: primer_bind
273 <222> LOCATION: (1)..(12)
274 <223> OTHER INFORMATION: NF-KB repeat in upstream primer
277 <400> SEQUENCE: 11
278 ggggaacttc cc          12
281 <210> SEQ ID NO: 12
282 <211> LENGTH: 73
283 <212> TYPE: DNA
284 <213> ORGANISM: oligonucleotide
286 <220> FEATURE:
287 <221> NAME/KEY: primer_bind
288 <222> LOCATION: (1)..(73)
289 <223> OTHER INFORMATION: 5' primer containing the NF-KB binding site, 18bp
290 complementary to SV40 promoter, and an XhoI site
293 <400> SEQUENCE: 12
294 gcggcctcga ggggaacttc cgggggactt ccgggggact ttccgggact ttccatcctg          60
296 ccattctcaat tag          73
299 <210> SEQ ID NO: 13
300 <211> LENGTH: 256
301 <212> TYPE: DNA
302 <213> ORGANISM: Homo sapiens
304 <400> SEQUENCE: 13
305 ctccagggga ctttccggg gactttccgg ggaactttccg ggaactttcca tctgccaat          60
307 caattagta gcaacatag tcccgccct aactccgcc atcccgccc taactccgc          120

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TIME: 09:41:44

Input Set : A:\PF220P1.ST25.txt

Output Set: N:\CRF3\12292000\1726348.raw

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309 cagttccgcgc cactttccgc cccatagctg actaatlltt ttattttatg cagaagccca 180
311 ggcgcgcctcg gctctgagc tatcccgaa gtagtgagga ggcctttttg gaggcctagg 240
313 cttttgcaca aagctt
316 <210> SEQ ID NO: 14 256
317 <211> LENGTH: 27
318 <212> TYPE: DNA
319 <213> ORGANISM: oligonucleotide
321 <220> FEATURE:
322 <221> NAME/KEY: primer_bind
323 <222> LOCATION: (1)..(27)
324 <223> OTHER INFORMATION: 5' primer containing a BamHI site and 14nt of rCF alpha H111
327 <400> SEQUENCE: 14
328 cgcggatccg ggcacaaagaa cctttgc 27
331 <210> SEQ ID NO: 15
332 <211> LENGTH: 30
333 <212> TYPE: DNA
334 <213> ORGANISM: oligonucleotide
336 <220> FEATURE:
337 <221> NAME/KEY: primer_bind
338 <222> LOCATION: (1)..(30)
339 <223> OTHER INFORMATION: 3' primer containing an XbaI site and 21 nt of TGF alpha H111
342 <400> SEQUENCE: 15
343 ggcgtctagac taaagcagtg agaacgagcc 30
346 <210> SEQ ID NO: 16
347 <211> LENGTH: 34
348 <212> TYPE: DNA
349 <213> ORGANISM: oligonucleotide
351 <220> FEATURE:
352 <221> NAME/KEY: primer_bind
353 <222> LOCATION: (1)..(34)
354 <223> OTHER INFORMATION: 5' primer containing a BamHI site
357 <400> SEQUENCE: 16
358 cgcggatccg tccatcatgg cgcctcacgg ccgg 34
361 <210> SEQ ID NO: 17
362 <211> LENGTH: 33
363 <212> TYPE: DNA
364 <213> ORGANISM: oligonucleotide
366 <220> FEATURE:
367 <221> NAME/KEY: primer_bind
368 <222> LOCATION: (1)..(33)
369 <223> OTHER INFORMATION: 3' primer containing an XbaI site
372 <400> SEQUENCE: 17
373 ggcgtctagac tacataagca gtgacaacga gcc 33
376 <210> SEQ ID NO: 18
377 <211> LENGTH: 28
378 <212> TYPE: DNA
379 <213> ORGANISM: oligonucleotide
381 <220> FEATURE:
382 <221> NAME/KEY: primer_bind

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/726,348

DATE: 12/29/2000

TIME: 09:41:45

Input Set : A:\PF220P1.ST25.txt

Output Set: N:\CRF3\12292000\I726348.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:182 M:341 W: (46) "n" or "Xad" used, for SEQ ID#5